

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 07102240
PUBLICATION DATE : 18-04-95

APPLICATION DATE : 20-04-91
APPLICATION NUMBER : 03122026

APPLICANT : KAWAHARA HIROHITO;

INVENTOR : KAWAHARA HIROHITO;

INT.CL. : C09K 3/00 A01N 25/08 A01N 59/00 A01N 59/04 A23L 3/3409 C01B 7/01 C01B
13/10 C02F 1/50 C02F 1/50 C02F 1/50

TITLE : SOLID OXIDIZING AGENT CONTAINING OZONE AND CHLORINE

ABSTRACT : PURPOSE: To improve the persistence of oxidizing power by mixing ice obtd. from water
contg. O₃ and Cl₂ with dry ice.

CONSTITUTION: Ice contg. O₃ and Cl₂ is prepd. by freezing water contg. specified amts.
of O₃ and Cl₂ or by separately preparing water contg. O₃ and water contg. Cl₂ and
freezing them. The prepd. ice is powdered and mixed with powdered dry ice in a specified
ratio to give a powdered oxidizing agent, which is shaped into a desired shape to give a
solid oxidizing agent. A strong oxidizing atmosphere at from room temp. to about -70°C is
formed by filling a thermally insulated box having a heat transfer pipe with the powdered
and/or solid oxidizing agent, tightly sealing the box, introducing a specified heating
medium into the pipe to adjust the subliming rate of the agent, and thereby releasing a gas
mixture comprising O₃, Cl₂, CO₂ and water vapor while controlling the amt. and concn. of
the mixture released according to the application.

COPYRIGHT: (C)1995,JPO